

PRELIMINARY AMENDMENT
New National Stage Entry Application of
PCT/FR2005/000774

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Currently Amended) A valve ~~(110)~~ comprising a shutter ~~(20)~~ placed in a chamber (12) provided in a valve body, an end of said chamber being provided with a seat ~~(116)~~ against which a flap-forming part of the shutter rests in a closed position of the valve and is remote therefrom in ~~a~~an open position of the valve and a magnetic control device including shutter magnetic drive means ~~(130)~~ disposed outside the chamber for moving it either to its closed position or to its open position, ~~characterized in that the~~wherein said magnetic control device further comprises at least one ball ~~(123)~~ which is made of a magnetic material, disposed in ~~the~~said chamber and which is coupled to ~~the~~said external magnetic drive means ~~(130)~~, said ball being associated with ~~the~~said shutter in such a way that said shutter is driven in ~~the~~said chamber ~~(12)~~ when said ball is itself moved by ~~the~~said external magnetic drive means.

2. (Currently Amended) The valve as claimed in claim 1, ~~characterized in that~~wherein said ball ~~(123)~~ turns freely relative to ~~the~~said shutter ~~(20)~~.

3. (Currently Amended) The valve as claimed in ~~either claim 1 or claim 2,~~characterized in that thewherein said shutter ~~(20)~~ includes at least one housing ~~(124, 824)~~ in

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which at least one ball is placed.

4. (Currently Amended) The valve as claimed in ~~any one of claims 1 to 3~~claim 1, ~~characterized in that it is~~wherein said valve is adapted to center ~~the~~said shutter in ~~the~~said valve body.

5. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein said shutter is associated with at least two balls that cooperate ~~with it~~therewith and ~~the~~said valve body to provide centering by ~~the~~said external magnetic drive means.

6. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein centering means ~~(324)~~ are disposed inside ~~the~~said chamber, on ~~its~~the lateral wall thereof, so as to cooperate with ~~the~~said shutter.

7. (Currently Amended) The valve as claimed in claim 4, ~~characterized in that~~wherein centering means ~~(324)~~ are disposed on ~~the~~said shutter so as to cooperate with ~~the~~said internal lateral wall of ~~the~~said chamber.

8. (Currently Amended) The valve as claimed in ~~either claim 6 or claim 7~~, ~~characterized in that~~wherein said centering means are fins ~~(524; 825)~~.

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9. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that~~wherein said shutter is associated with at least two balls
offset longitudinally relative to the axis of ~~the~~said shutter.

10. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that~~wherein at least one section of ~~the~~said shutter is associated
with at least two balls that are offset angularly relative to each other.

11. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that~~wherein two separate sections of ~~the~~said shutter are each
associated with at least two balls disposed so that the angular offset between two successive balls
of a same section is less than or equal to 180° .

12. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that~~wherein the (n) balls of a section are offset angularly by an
angle equal to $360^\circ/n$.

13. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that~~wherein at least one fluid passage groove (113) is machined
in the inside wall of said chamber (12) and a rolling area (114) is formed on either side of said
groove.

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14. (Currently Amended) The valve as claimed in ~~any one of the preceding~~
~~claims~~claim 1, ~~characterized in that the~~wherein said drive means ~~(130)~~ placed outside ~~the said~~
valve body are adapted to be moved along a direction ~~(133)~~ parallel to the longitudinal axis ~~(A)~~
of ~~the said~~ valve so as to drive the at least one ball ~~(123)~~ simultaneously.

15. (Currently Amended) The valve as claimed in claim 14, ~~characterized in that~~
~~the~~wherein said drive means ~~(130)~~ comprise at least one magnet.